

**IN THE CLAIMS**

A listing of all claims and their current status in accordance with 37 C.F.R. § 1.121(c) is provided below.

1. (Previously Presented) A headband, comprising:  
  
an elastic segment sized to fit around a wearer's head;  
  
a non-elastic segment being smaller than and attached to the elastic segment on an exterior side of the elastic segment, wherein the non-elastic segment is sized to span a portion of the elastic segment when the elastic segment is stretched, the non-elastic segment being larger than the portion of the elastic segment it spans when the elastic segment is not stretched; and  
  
a sensor coupled to the headband on a patient side of the elastic segment opposite the exterior side.

2. (Previously Presented) The headband of claim 1 comprising a closure mechanism coupled with the elastic portion.

3. (Previously Presented) The headband of claim 2 wherein the closure mechanism is a hook and loop closure, a snap, a button, an adhesive, a pin, or combinations thereof.

4. (Previously Presented) The headband of claim 1 wherein the elastic segment is rectangular shaped having a long and a short dimension, and the non-elastic segment is attached along a set of its edges with the elastic segment, wherein the set of edges are generally parallel to the short dimension.

5. (Previously Presented) The headband of claim 1 wherein the non-elastic segment is attached with the elastic segment in such a manner that the non-elastic segment projects out from the exterior surface of the elastic portion when the headband is not sufficiently tight, thus creating a loop which provides a visual indication that the headband needs re-tightening.

6. (Previously Presented) The headband of claim 1 wherein the non-elastic segment is formed with a fold or a crease, which causes the non-elastic portion to project out from the exterior surface of the elastic portion in a pronounced fashion as the elastic segment retracts.

7. (Previously Presented) The headband of claim 5 wherein the non-elastic segment is sized to not project out from the exterior surface of the elastic portion when the headband is sufficiently tight thus indicating an adequate level of tension corresponding with delivering a pressure in a range higher than venous pressure and lower than capillary pressure to the forehead of the wearer.

8. (Previously Presented) A headband, comprising:  
  
an inelastic segment sized to fit around a wearer's head; and  
  
an elastic segment being smaller than and attached to the inelastic segment on an exterior side of the inelastic segment, the elastic segment sized to span a portion of the inelastic segment when elastic segment is stretched, the elastic segment being smaller than the portion of the inelastic segment it spans when the elastic segment is not stretched; and  
  
a sensor coupled to the headband on a patient side of the inelastic segment opposite the exterior side.

9. (Previously Presented) The headband of claim 8 comprising a closure mechanism coupled with the elastic portion.

10. (Previously Presented) The headband of claim 9 wherein the closure mechanism is a hook and loop closure, a snap, a button, an adhesive, a pin, or combinations thereof.

11. (Previously Presented) The headband of claim 8 wherein the inelastic segment is rectangular shaped having a long and a short dimension, and the elastic segment is attached along a set of its edges with the inelastic segment, wherein the set of edges are generally parallel to the short dimension.

12. (Previously Presented) The headband of claim 8 wherein the elastic segment is attached with the inelastic segment in such a manner that the non-elastic segment projects out from the surface adjacent to a user's forehead when the headband is not sufficiently tight, thus creating a loop which provides a visual indication that the headband needs re-tightening.

13. (Previously Presented) The headband of claim 12 wherein the non-elastic segment is sized to not project out from the surface when the headband is sufficiently tight thus indicating an adequate level of tension corresponding with delivering a pressure in a range higher than venous pressure and lower than capillary pressure to the wearer's forehead.

14.-18. (Cancelled)

19. (Previously Presented) A headband, comprising:  
an elastic segment sized to fit around a wearer's head; and  
a non-elastic segment smaller than and attached discontinuously to the elastic segment, such that the nonelastic segment has some slack when the elastic segment is in an unstretched state, wherein the nonelastic segment has less slack when the elastic segment is applied to a patient's head with sufficient tension to deliver pressure in the range higher than venous pressure and lower than capillary pressure to the wearer's head.

20. (Previously Presented) The headband of claim 19 comprising a closure mechanism coupled with the elastic portion.

21. (Previously Presented) The headband of claim 20 wherein the closure mechanism is a hook and loop closure, a snap, a button, an adhesive, a pin, or combinations thereof.

22. (Previously Presented) The headband of claim 19 wherein the non-elastic segment is attached with the elastic segment in such a manner that the non-elastic segment projects out from the surface of the elastic portion when the headband is not sufficiently tight, thus creating a loop which provides a visual indication that the headband needs re-tightening.

23. (Previously Presented) The headband of claim 19 wherein the non-elastic segment is sized to have no slack when the headband is applied with sufficient tension to deliver pressure in the range higher than venous pressure and lower than capillary pressure to the wearer's head.

24. (Previously Presented) The headband of claim 19, wherein the headband is coupled to a sensor.

25. (Previously Presented) The headband of claim 1 wherein the sensor is a pulse oximetry sensor.

26. (Previously Presented) The headband of claim 8 wherein the sensor is a pulse oximetry sensor.

27. (Previously Presented) The headband of claim 1 wherein the sensor is removably coupled to the headband by the tension of the headband after the headband has been applied to the to the wearer's forehead.

28. (Previously Presented) A headband, comprising:  
an elastic segment sized to fit around a wearer's head; and  
a non-elastic segment smaller than and attached discontinuously to an exterior side of the elastic segment, wherein the non-elastic segment is attached with the elastic segment in such a manner that the non-elastic segment projects out from the surface of the elastic portion when the headband is not sufficiently tight, thus creating a loop which provides a visual indication that the headband needs re-tightening.